System and Method for Improved Complex Storage Locks

ABSTRACT

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An improved system and method for improving complex storage locks that manage access to a shared resource. FIFO queue is maintained for processes waiting to read or write to the shared resource. When the shared resource is available, the first item is read from the queue. first item is a write requestor, the requestor is woken up If the first item on the in order to request the lock. queue is a read requestor, then that read requestor is woken up along with any other read requestors read from the queue until a write requestor is encountered or the end of When the write wanted flag is set, the queue is reached. new read requestors are denied access to the read lock, however any read requestors that were woken up in order to use the read lock are granted a read lock.